

Table 1. List of genes grouped in 7 gene clusters of rat cardiopulmonary genearray.

Biological process:	Target gene	Abbreviation
<u>1. Injury/inflammation:</u>	interleukin-1 β interleukin-5 interleukin-6 interleukin-4 interferon- γ macrophage inflammatory protein-1 α macrophage inflammatory protein-2 monocyte chemoattractant protein-1 regulated on activation and normal T cell expressed and secreted tumor necrosis factor- α tumor necrosis factor- α receptor 1 transforming growth factor- β transforming growth factor- β receptor 1	IL-1 β IL-5 IL-6 IL-4 IFN- γ MIP-1 α MIP-2 MCP-1 RANTES TNF- α TNF- α R1 TGF- β TGF- β R1
<u>2. Repair/remodeling:</u>	hepatocyte growth factor neuronal growth factor tissue factor tissue factor inhibitor platelet derived growth factor ligand A platelet derived growth factor ligand B platelet derived growth factor receptor- α platelet derived growth factor receptor- β platelet activating factor platelet activating factor receptor vascular endothelial growth factor-D E-selectin P-selectin intracellular adhesion molecule-1 vascular cell adhesion molecule-1 cellular fibronectin EIII-A surfactant protein-A surfactant protein-D β -actin troponin clusterin α -fibrinogen γ -fibrinogen cardiac β -myosin cardiotroponin K-kininogen α -actin cardiac protein	HGF NGF TF TFI PDGF-A PDGF-B PDGF- α PDGF- β PAF PAF-R VEGF-D E-sel. P-sel. ICAM-1 VCAM-1 C-Fn SP-A SP-D β -actin Tropo. Clust. α -fibri. γ -fibri. Card. β -myo. Cardiotropo. K-kinino. AACP

Table 1. Continued

Biological process:	Target gene	Abbreviation
<u>3. Stress response:</u>	heat shock protein 70 major acute phase protein protein-C heme oxygenase-2	hsp70 MAPP Prot.C HO-2
<u>4. Vascular function:</u>	manganese dependent super oxide dismutase tissue inhibitor of metalloproteinase-1 tissue inhibitor of metalloproteinase-2	MnSOD TIMP-1 TIMP-2
<u>5. Kinases :</u>	endothelin-1 endothelin-1 receptor A endothelin-1 receptor B endothelin converting enzyme angiotensinogen angiotensin II converting enzyme angiotensin-II receptor type 1A angiotensin-II receptor type 2 A atrial natriuretic factor	ET-1 ET-1A ET-1B ECE Ang. ACE Ang.II 1A Ang.II 2A ANF
<u>6. Oncogenes/Transcription factors:</u>	kinase insert domain containing receptor thrombomodulin renin c-raf nitric oxide synthase induced nitric oxide synthase	KDR TM. Renin C-raf NOS NOS(I)
	extracellular signal regulated kinase-7 mitogen activated protein kinase p38 fms-like tyrosine kinase protein kinase C- α protein kinase C- α 1 protein kinase C- β stress activated protein kinase- α cyclin dependent kinase-2 chp-Janus kinase	ERK7 MAPK Fms-TK PKC- α PKC- α 1 PKC- β SAPK- α CDK2 Chp-JNK
	ras oncogene H-ras c-fos bcl-2 nuclear factor kappa B tumor suppressor protein 53 p21 cip1/Waf1 Cyclin E	Ha-ras C-fos bcl-2 NF- κ B p53 p21 Cyclin-E

Table 1. Continued

Biological process:	Target gene	Abbreviation
<u>7. Energy metabolism :</u>	glyceraldehyde 3-phosphate dehydrogenase sodium-potassium dependent ATPase calcium-dependent ATPase	G3PDH N/K ATPase Ca-ATPase
Miscellaneous :	monoamine oxidase rat liver male specific P-450	MAO SK-15
Expressed sequence tags :	ESTs isolated from mouse cell line Long terminal repeat seq from rat EST isolated from human cell line	EST-1, 3, 5, 6 SK72 EST-2, 4